United States
Environmental
Protection Agency

US Army Corps
Of Engineers
New England District
696 Virginia Road
Concord, MA 01742-2751

LONG ISLAND SOUND
DREDGED MATERIAL DISPOSAL EIS

Working Group Meeting #2

Bridgeport, CT
April 26, 2001

June, 2001

LIS-2001-WG04-2

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1.0 INTRODUCTION/OVERVIEW

The U.S. Environmental Protection Agency, Regions I and II (EPA), and the U.S. Army Corps of Engineers, New England District (the Corps), are proceeding with the preparation of an Environmental Impact Statement (EIS) in compliance with the National Environmental Policy Act (NEPA). The EIS will consider the potential designation of one or more dredged material disposal sites in the waters of Long Island Sound (LIS) consistent with the provisions of Section 102(c) of the Marine Protection, Research, and Sanctuaries Act (MPRSA) and 40 CFR 230.80 of EPA's regulations under section 404 of the Clean Water Act (CWA). Prior to making a decision on designation, the EPA is required to evaluate the environmental and socioeconomic impacts of a range of alternatives for disposal of dredged material in the waters of LIS. In conducting this evaluation, NEPA requires that the public be given the opportunity for input in the scoping of analyses and review of the EIS.

At public workshops held in April 2000 in Port Jefferson, NY and Groton, CT, the public was invited to participate in working groups in the development of the LIS Dredged Material Disposal Site Designation EIS. The first working group meeting was held in Old Lyme, CT on July 19, 2000. The second working group meeting was held in Bridgeport, CT on April 26, 2001. This meeting was arranged by Ann Rodney, EPA by a notice dated March 16, 2001 (Appendix A).

The purpose of the meeting was to update the working group on completed and on-going field activities and data collection and to report on economics studies (agenda included in Appendix B). Activities reported include: a summary of field work completed to date; the status of data collection on the fisheries resource and fishing activities; a report on potential upland alternative disposal sites; and the meta-database of GIS information. The economic studies included the progress made to quantify the need for dredging and the analyses planned to evaluate the impact of dredging dependent uses on the region's economy.

Thirty-three individuals attended (Appendix D).

Ann Rodney facilitated the meeting.

2.0 DISCUSSION

Following each presentation the floor was opened to questions, comments and other discussion. Questions raised and comments made by working group members are shown in italics and responses, if given, in normal type face. In some instances no responses were necessary and the comments will be considered in the development of the EIS. The morning session covered the field summary, fisheries resources and fishing activities and the potential upland alternative disposal sites. The afternoon session covered the GIS update and the dredging needs and economic analyses.

Following the meeting a draft copy of this report was distributed to the working group. Three responses were received and are included in Appendix E. Revisions to text, in response to comments received, are bracketed by asterisks (*) and printed in bold type to highlight where changes have been made.

2.1 FIELD SUMMARY

Chris High, Corps of Engineers, New England District presented a summary of completed and on-going field activities. The purpose, sampling and status were given for each of the following categories of work (a copy of the complete presentation is included in Appendix C):

1. Sediment Chemistry of Existing Sites
2. Benthic Community Sampling/Analysis of Existing Sites
3. Tissue Chemistry (Benthic, Lobster, Finfish)
4. Sediment Mapping
5. Physical Oceanographic (PhysO) Data

Field Summary Discussion:

1. ***Are benthic studies being done for sites other than the four existing sites?*** No. When other sites are selected for detailed evaluation there will be an opportunity to perform benthic studies at those locations. Benthic data is site specific since the organisms are for the most part immobile.

2. ***Are lobster/finfish samples taken outside of the existing four sites?*** Yes. Unlike the benthic organisms, lobster and finfish are mobile. Depending on the depth and other conditions the lobster and finfish data can be considered typical.

3. ***Was pancreas taken for the lobster study?*** Yes. Shell samples were also taken.

4. ***Did you analyze lobster in terms of age?*** A certain age limit was looked for in terms of which lobsters would constitute the samples. As detailed in the Lobster Survey July 2000 Summary Report (LIS-2000-F07-L,TC), at each location an attempt was made to collect five composite samples of five lobsters each. If sufficient lobsters were available, only legal size (non-egg-bearing females) catchable lobsters (> or equal to 82.6mm) were used. When sufficient lobster biomass of legal size was not available, lobsters expected to reach legal length after their next molt (a minimum take size of 72.6mm established with consultation with CTDEP) and/or egg-bearing females were utilized. Table 2 on page 4-2 of the Lobster Survey report details the results.

5. ***Did you correlate studies by age of lobster?*** The sample/analysis design did not look to gather separate data from legal-sized and sub-legal separately then compare and contrast them. The goal was to gather legal-sized lobsters from a gradient across the sound, when legal-sized lobster were not available certain criteria of sublegals were utilized (as mentioned above). Since these lobsters will be composited for analysis this type of age correlation data won't be available.

6. ***What fish were found?*** The catch information is detailed in the Finfish Survey June and September 2000 Summary Report (LIS-2000-F06-F,TC) on Tables 2 and 3 on pages 4-2 and 4-3. Catches in the June 2000 effort included winter flounder, windowpane, scup, and striped bass. Catches in the September 2000 effort included winter flounder, scup, striped seabass, and bluefish.

7. ***What criteria was used to determine transects for physical oceanographic work?*** We used historic data and consulted with others. We attempted to fill any gaps.

8. ***During public meetings there was interest in doing physical oceanographic work in certain areas including holes etc. in Larchmont Harbor.*** The current field work combined with historic data is for characterizing the LIS in general and not to collect data at specific sites. When sites are selected for more detailed evaluation more physical oceanographic data collections may be done.

9. ***How far back does the historic physical oceanographic data go?*** Generally the data goes back to 1985. Some of the older data is hard to transcribe.

10. ***Have you considered sea level rise?*** Sea level rise will probably be covered in the hydrodynamic analysis.

11. ***Climate changes also include increased storm activity. Will that be included?*** We are building a model with substantial data. At this point we don't know how sensitive the model is to climatic changes. We will be conducting a worst-case storm event analysis.

12. ***Are the sites being evaluated for disposal of suitable or unsuitable dredged material?*** The sites we are currently evaluating would be used only for disposal of suitable dredged material.

13. ***Is any data being collected for open ocean sites (deep water)?*** All data collection has been in LIS. If, during site screening, we think that ocean sites are needed we can get site specific information for identified sites. For now we can use data on deep water sites available from other studies.

2.2 FISHERIES RESOURCES AND FISHING ACTIVITIES

Drew Carey, PhD, Coastal Vision, presented an overview of fisheries resources including data collected from resource agencies and an update on the fishing activities survey conducted through the LIS EIS program (a copy of the complete presentation is included in Appendix C).

Fisheries Resources and Fishing Activities Discussion:

1. ***Is the Connecticut Department of Environmental Protection grid 3-dimensional?*** No. Trawl data is only from the bottom.

2. ***Did any of the interviewees note any biological impacts?*** Very few made a direct link. There were many comments about shell disease.

3. ***Were there any specific incidents noted (short dumping)?*** Yes, but incidents occurred 20-30 years ago.

4. ***Was the spatial relationship with the respondents shown in the report?*** We asked for explicit boundaries but the sample was too small. A map would not be very helpful.

5. ***Later, after you get more data could it be mapped? Where are the data gaps?*** A few examples were given – data gap for Fishers Island, from Clinton to Saybrook, from Port Jefferson to Mattituck, good data around Bridgeport, New London, Western LIS.

6. ***The lobster pot counts may be artificially high. Some put out pots to keep others out. Eastern LIS lobstermen have an agenda.***

7. ***More questions should be added such as: How many fishermen reside at docks or use them?; What is the impact on them if dredging does not take place?*** Fishermen understand the need to dredge but they may not like it. There is a danger in adding questions late in the process.

8. ***National Marine Fisheries Service has funded studies of lobster die off. More data should be available soon.*** We will coordinate with NMFS.

2.3 POTENTIAL UPLAND ALTERNATIVE DISPOSAL SITES

Stan Humphries, ENSR, gave an overview of the recently drafted report of potential upland alternative disposal sites which include landfills, brownfields and alongshore sites. In addition to the presentation included in Appendix C, slides of a beach nourishment project on Martha's Vineyard were shown as an example of beneficial use of dredged material.

Potential Upland Alternative Disposal Sites Discussion:

1. ***Will capacity be used in looking at a site?*** Yes

2. ***You have concentrated on small projects. What about large projects (> 1 million CY)? What about bulkhead filling and containment islands?*** This study on potential upland sites focused on smaller suitable material sites. Bulkhead filling and containment islands will be evaluated in the EIS primarily for unsuitable dredged material.

3. ***Connecticut showed only moderate potential for alongshore sites. Have there been recent examples of where this has worked?*** Sandy Point (Stonington). Alongshore sites in CT hold a moderate rating ***because of the limited opportunities presented by inherent sediment, benthic, and land use issues that will need to be solved on a case by case project specific basis. For more detail see George Wisker's comments in Appendix E.***

4. ***In looking at projects over the last 10 years, very few had clean material suitable for upland disposal. Upland has very little potential.*** There are situations on Long Island where there are opportunities. It may take a project-by-project review.

5. ***You need to identify what can go to these sites. The process to get approval is long and hard.*** This issue is addressed on a project-specific basis through the permitting process for individual projects.

6. ***You need to qualify the potential sites.*** General qualifications associated with types of reuse are included in the report. Specifics are beyond the scope of the current task.

7. ***You may find yourself competing with the NY harbor projects for upland sites. Some of the sites listed may be spoken for.***

8. ***You are back to where you were in the scoping meetings. NY has sand, CT has mud and rocks. The number of opportunities for beneficial use is slim.***

9. ***What is the timetable for going beyond the inventory?*** Additional site screening and refinement is subject to funding availability.

10. ***Did you do a study of distance from dredging centers and potential sites?*** Yes, for alongshore. This will be done for the brownfields and landfills later, as relevant.

11. ***Did you consider the competing uses for landfills?*** No, but the EIS eventually has to look at feasible and practicable alternatives so this will be included.

12. ***Can dredged material be used along the shoreline to increase its elevation to reduce the impact of sea level rise?*** This question is beyond the scope of the current study. It is highly unlikely that this would be a practicable alternative.

13. ***NY State is currently doing a trends analysis to address great losses of wetlands (intertidal islands). They are not sure why the losses are occurring. Continuing studies are on the north shore. The state may be interested in restoring the islands, however more analysis and criteria is needed.***

2.4 GIS META-DATABASE

Drew Carey, Coastal Vision and Isabelle Morin, ENSR presented an overview of the GIS data that is available for the study and new data to be acquired. Arc Explorer, a free GIS viewing software, was used to show sediment sampling and physical oceanography survey lines. The complete presentation is included in Appendix C.

Meta-Database of GIS Information Discussion:

1. ***When will you have the data to do site screening?*** We can't answer that question right now. We need more time to analyze the data.

2. ***How successful are you in mapping the entire ZSF?*** USGS and NOAA databases do not cover the entire area. We will need to add data for Block Island Sound.

3. ***Biologic data is in points. How will you extrapolate data by using these points?*** Only the benthic data is in points.

4. ***How much data is available from NY?*** Some may be coming soon but not much (Karen Chytalo).

2.5 DREDGING NEEDS AND ECONOMIC ANALYSES

Rich Ring, Corps of Engineers, New England District, presented an update on the dredging needs survey including the current list of facilities to be surveyed, the OMB-approved questionnaire and the schedule. Scott Hazelton, WEFA, who will be performing a model analysis for the study, reviewed the approach to be taken. The complete presentation is included in Appendix C.

Dredging needs and economic analyses discussion:

1. ***What about silts hiding in the rivers? During serious storms a facility could be wiped out.*** We assume that respondents will use their best estimate for future dredging needs. If, historically, large storms have a major impact then that should be factored into the estimates.

2. ***Does the cost of dredging include permitting, testing costs etc.?*** Yes.

3. ***In question 24 of the questionnaire, you ask for loss of revenues. A better measure would be fixed cost and loss of slips.***

4. ***What about the situation where the controlling depth for a facility is a federal channel? How can we estimate the dredging needs when we don't know the schedule for dredging the federal channels?*** You should note in the comments fields of the questionnaire what your particular situation is and assumptions made.

5. ***The financial impact in the future should be discounted.*** Economic impact studies generally present their findings in nominal (not discounted) terms since that is what the audience most readily understands. Obviously, one also gets bigger impacts in nominal terms. While it is certainly possible to estimate impacts in real (discounted) terms, I'm not sure how useful that is, and I can't see committing to doing so.

6. ***Is the Corps computing the impact of their dredging?*** Yes.

7. ***Will there be an independent review of questionnaire results?*** Yes. We will be checking with permit data. Any unusual results will be questioned.

8. ***The cover letter is important since the results of this questionnaire are critical to the LIS EIS. The sub base is important to Connecticut. If subs can't get in there are big impacts on the economics of the area. In commercial ports there will be impact on trucking and huge multiplier effects. Working Group members presented statistics from a University of Connecticut study which offered some statistics that might indicate the following if dredging stops:***

   27,000 jobs lost

   47,000 population lost

   19 million tons of cargo shifted to trucks (950,000 trucks added to highways).

   Average annual Tax impact would be $300 million per year

9. ***Bridgeport needs dredging now. They are lightering now and this may cause significant problems.***

10. ***There is no "no action" alternative. Business will go down. We are spending a lot of time (on the EIS).***

11. ***The Working Group should have input to the cover letter.*** We will send out the cover letter for comment.

12. ***Do respondents have to justify the information in the questionnaire?*** No. We are hoping that everyone will use reasonable judgment. We feel that the questionnaire is a better alternative than the Corps making its own assumptions.

13. ***What multiplier will you use in the model?*** There are many. It depends on the industry. There are also multipliers for areas. The multiplier for NY also includes much of LIS in CT (in fact, all the major CT metro seaport areas). Multipliers are fixed, not judgments.

14. ***It was opined that energy has to be considered in the model. A paper written by Charles Hall disagrees with most economic models since they do not represent natural resources and depletion of them. You need to look at energy resource impacts.*** All macroeconomic models worth anything include energy price terms which reflect (or can be made to reflect) relative scarcity. However, even if one were to concede that economic models do not accurately measure energy resource impacts, this is a ceteris paribus study of the economic impact of marine dependent industries. What happens to those industries as a result of dredging decisions is completely independent of energy considerations

2.6 STATUS OF EIS PROJECT

Mark Habel, Project Manager, Corps of Engineers, New England District provided a summary of project status.

The project has received $3 million to date (FY 1999 – $0.5 M, FY 2000 - $1.6 M, This FY $1.2 M). We did not anticipate the size of the field effort when the study was originally scoped. We have not begun site screening.

We are out of funds except for contract work already authorized. There are no funds for testing tissue. Funds we expect for FY 2002 will be substantially less than needed for tissue testing which leaves none for alternative analysis or other tasks.

Essentially we have a $10 Million EIS. We have spent $3 Million.

If fully funded we would be able to complete the EIS in early calendar year 2005.

Project Status Discussion:

1. ***Are the economic studies just presented funded?*** Yes.

2. ***Would you provide a task list showing what is funded and what is not?*** Yes.

3.0 WRAP-UP

Ann Rodney announced that a draft of the notes of the meeting would be distributed for comment.

APPENDIX A

MEETING ANNOUNCEMENT AND PRE-MEETING PACKET

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NOTICE SENT March 16, 2001

Ann Rodney

03/16/01
12:15 PM

To: bay@friendsofthebay.org, bei@debiz.com, bjm@byy.com, bkelly6313@aol.com, bradk@marinenv.com, brbryan@fishersisland.net, ckral@javanet.com, cleanhbr@aol.com, cmta@snet.net, ctmaritime@msn.com, ctpilot@erols.com, dwnorth@aol.com, essexisland@aol.com, george.proios@co.suffolk.ny.us, gulbran@battelle.org, hanluksam@aol.com, jack@byy.com, johnny.mac@att.net, jsjohnson20@hotmail.com, mcmyacht@aol.com, mpurnell@snet.net, mreiser@marinenv.com, mtristin@logistec.com, rfromer@snet.net, rmcomeau@netscape.net, sailerct@connix.com, savethesound@snet.net, saybrook@snet.net, spicersmarina@aol.com, tdubno@gatewayt.com, thamesdd@99main.com, wshadel@zoo.uvm.edu
cc: epowers@ensr.com, george.wisker@po.state.ct.us, knchytal@gw.dec.state.ny.us, knchytal@gw.dec.state.ny.us, Pabst.Douglas@epamail.epa.gov, susan.e.holtham@usace.army.mil, Tedesco.Mark@epamail.epa.gov, Tomey.David@epamail.epa.gov
Subject: LIS EIS - Working Group meeting

Hello,

This is a heads up because EPA and the Corps would like to gather the Working Group for a meeting the end of April. We are tentatively looking at Thursday April 26th in Bridgeport, CT. I am still in the process of confirming the date and the place. This would be an all day meeting (10am - 3pm ?).

The topics to be presented and discussed are:

1. GIS data: We have been gathering information for the GIS data base and have a baseline to present to you.

2. Upland Report: The upland research is being completed and we will give you our findings.

3. The Facilities Survey and List of Facilities: We would like to present the survey to be sent out to Facilities. We would like you to review the list of facilities we have gather so far. The subcontractor WEFA will be at the Working Group meeting to answer any questions you might have on the economics study.

4. Field work update: This will be a summary of what we have done and what needs to be completed.

5. Fishing activities report: This is the summary of what activities we conducted with the fishermen of the Sound.

There will be five items I will be sending you next week, and are related to the topics above.
I will be sending you:

1 (GIS) - a Meta data file on the GIS information we have gathered so far. We ask you to review for completeness.

2. (Upland) - a factsheet. We ask you to give suggestions.

3. (Facilities) - The Survey to be sent out and the List of Facilities it will be sent to. We ask you to review the List of Facilities for completeness. A copy of the Survey, due to restrictions from OMB, the Survey can not be changed.

5. (Fishing) - A summary report, we request your comments on this.

At this point I do not have the 5 items to send you, but will send them to you as I receive them (piece meal). I will also confirm the time date & place as soon as I know.

Again, please contact me should you have any questions. Thanks- Ann

Ann Rodney
US EPA New England Region
1 Congress Street
Suite 1100, CWQ
Boston, MA 02114-2023
(617) 918-1538
rodney.ann@epa.gov

INFORMATION SENT MARCH 21, 2001

Ann Rodney

03/21/01
04:36 PM

To: bay@friendsofthebay.org, bei@debiz.com, bjm@byy.com, bkelly6313@aol.com, bradk@marinenv.com, brbryan@fishersisland.net, ckral@javanet.com, cleanhbr@aol.com, cmta@snet.net, ctmaritime@msn.com, ctpilot@erols.com, dwnorth@aol.com, essexisland@aol.com, george.proios@co.suffolk.ny.us, gulbran@battelle.org, hanluksam@aol.com, jack@byy.com, johnny.mac@att.net, jsjohnson20@hotmail.com, mcmyacht@aol.com, mpurnell@snet.net, mreiser@marinenv.com, mtristin@logistec.com, rfromer@snet.net, rmcomeau@netscape.net, sailerct@connix.com, savethesound@snet.net, saybrook@snet.net, spicersmarina@aol.com, tdubno@gatewayt.com, thamesdd@99main.com, wshadel@zoo.uvm.edu
cc: epowers@ensr.com, george.wisker@po.state.ct.us, knchytal@gw.dec.state.ny.us, knchytal@gw.dec.state.ny.us, Pabst.Douglas@epamail.epa.gov, susan.e.holtham@usace.army.mil, Tedesco.Mark@epamail.epa.gov, Tomey.David@epamail.epa.gov, PJackson@ensr.com
Subject: LIS EIS - WG - facilities files

Hello,
I have yet to confirm the April meeting (another e-mail). As I said in my last e-mail I will be sending you information to review for the April Working Group meeting. The attached files are the List of Facilities & Survey (#3 "Facilities" from my last e-mail).

I am not sure what format you all can view, read, print - this being the case - - - I am sending you 2 files of the same substance, but different formats. The file(s) are the names of navigation dependent Facilities (LIS Facilities ListMar.xls & Rpt_ListFacilities_Compact.rtf) and file(s) of the list of Contacts who will be surveyed for information (LIS contacts Mar xis & Rpt_Contacts.rtf).

The list of Facilities and the list of Contacts are in Draft form, we ask you to please review and should you have any additions, deletions, corrections, suggestions. Please either send them comments to me or bring
them to the meeting with you.

Also attached is the Survey questionnaire (FINAL questionnaire.doc). As it has been previously stated OMB has limited our ability to modify this questionnaire. The Survey is FYI only, and is in final form.

I have yet to send you: confirmation of meeting, date, place, time (will be soon), GIS Meta data file, & upland factsheet. I am not sure if a summary report on the field work and a summary on fishing activities will be sent to you in time for the meeting, however there will be a presentation on both topics.

Please contact me should you have any questions, suggestions, or comments.
Thanks - Ann

(See attached file: LIS Facilities List Mar.xls)
(See attached file: LIS contacts Mar.xls)
(See attached file: Rpt_ListFacilities_Compact.rtf)
(See attached file: Rpt_ListContacts.rtf)
(See attached file: FINAL Questionnaire.doc)

Ann Rodney
US EPA New England Region
1 Congress Street
Suite 1100, CWQ
Boston, MA 02114-2023
(617) 918-1538
rodney.ann@epa.gov

(Could you please pass this on to others you may think I missed.)

INFORMATION SENT MARCH 22, 2001

Ann Rodney

03/22/01
06:58 PM

To: awaters@savethesound.org, bay@friendsofthebay.org, bei@debiz.com, bjm@byy.com, bkelly6313@aol.com, bradk@marinenv.com, brbryan@fishersisland.net, ckral@javanet.com, cleanhbr@aol.com, cmta@snet.net, ctmaritime@msn.com, ctpilot@erols.com, dwnorth@aol.com, essexisland@aol.com, george.proios@co.suffolk.ny.us, gulbran@battelle.org, hanluksam@aol.com, jack@byy.com, johnny.mac@att.net, jsjohnson20@hotmail.com, mcmyacht@aol.com, mpurnell@snet.net, mreiser@marinenv.com, mtristin@logistec.com, rfromer@snet.net, rmcomeau@netscape.net, sailerct@connix.com, saybrook@snet.net, spicersmarina@aol.com, tdubno@gatewayt.com, thamesdd@99main.com, wshadel@zoo.uvm.edu
cc: brochi.jean@epamail.epa.gov, epowers@ensr.com, george.wisker@po.state.ct.us, jatkins@savethesound.org, knchytal@gw.dec.state.ny.us, knchytal@gw.dec.state.ny.us, Pabst.Douglas@epamail.epa.gov, susan.e.holtham@usace.army.mil, Tedesco.Mark@epamail.epa.gov, Tomey.David@epamail.epa.gov
Subject: LIS EIS - WG - Fishing, GIS, Upland

Hello,
I still need to confirm the April meeting (another e-mail – hopefully on Monday 3/26). This e-mail contains the following items for you to review for completeness:

Fishing Activities Report - This is the draft report on fishing activities (Fishing.pdf). The report is about 46 pages long, with graphics and you will need Adobe to read it.

GIS Meta data file - This GIS data (GISDataInventory_draft_SW2.xls)

Upland information - This is an interim report. There are 5 files:
(Uplandcover.doc) - Is just the cover of the document.
(Uplandinterim.doc) - Is the table of contents, narrative, and references
(UplandReuse.xls) - Appendix A
(Alongshore.xls) - Appendix B
(mshRestor.xls) - Appendix C

Hopefully, you will be able to read these files, if not please contact me and we'll figure something out. I am not in the office tomorrow, so I will get back to you on Monday.

As stated earlier, confirmation of the meeting with directions will be sent to you, hopefully Monday (3/26).

Again, please feel free to contact my anytime. Thanks - Ann

(See attached file: Fishing.pdf) To read this file you may need adobe - http://www.adobe.com/products/acrobat/readstep2.html

(See attached file: GISDataInventory_draft_WS2.xls)
(See attached file: uplandcover.doc)
(See attached file: uplandinterim.doc)
(See attached file: UplReuse.xls)
(See attached file: Alongshore.xls)
(See attached file: MshRestor.xls)

Ann Rodney
US EPA New England Region
1 Congress Street
Suite 1100, CWQ
Boston, MA 02114-2023
(617) 918-1538
rodney.ann@epa.gov

INFORMATION SENT MARCH 27,2001

Ann Rodney

03/27/01
03:43 PM

To: bay@friendsofthebay.org, bei@debiz.com, bjm@byy.com, bkelly6313@aol.com, bradk@marinenv.com, brbryan@fishersisland.net, ckral@javanet.com, cleanhbr@aol.com, cmta@snet.net, ctmaritime@msn.com, ctpilot@erols.com, dajjsj@aol.comawaters@savethesound.org, dwnorth@aol.com, essexisland@aol.com, george.proios@co.suffolk.ny.us, gulbran@battelle.org, hanluksam@aol.com, jack@byy.com, johnny.mac@att.net, jsjohnson20@hotmail.com, mcmyacht@aol.com, mpurnell@snet.net, mreiser@marinenv.com, mtristin@logistec.com, rfromer@snet.net, rmcomeau@netscape.net, sailerct@connix.com, saybrook@snet.net, spicersmarina@aol.com, tdubno@gatewayt.com, thamesdd@99main.com, wshadel@zoo.uvm.edu
cc: brochi.jean@epamail.epa.gov, christopher.j.high@usace.army.mil, epowers@ensr.com, george.wisker@po.state.ct.us, j.evans-brumm@evdoramail.com, jatkins@savethesound.org, knchytal@gw.dec.state.ny.us, knchytal@gw.dec.state.ny.us, Pabst.Douglas@epamail.epa.gov, salata.joseph@snet.net, susan.e.holtham@usace.army.mil, Tedesco.Mark@epamail.epa.gov, Tomey.David@epamail.epa.gov
Subject: LIS EIS - April 26th WG - Bridgeport

Hello,

Yes it is confirmed (due to Joe Salata's dedication & the generosity of the Bridgeport Aquaculture School - thank you!)

The LIS EIS Working Group will meet on Thursday April 26, 2001, 10:00am-3:00pm at the Bridgeport Regional Vocational Aquaculture School in Bridgeport, CT. (203) 576-7608. I believe many of you have been there for other meetings. The directions are below, and the website is: http://www.aquaculture.bridgeport.ct.lightspan.net/servlet/UserView (?)

Should you be coming from Long Island I believe the Bridgeport Ferry gets in at 9:30am and I can arrange to have someone pick you up at the Ferry - please call me should you wish a ride (asap). The ferry website is: http://www.bpjferry.com/pjf1.shtml

You should have received all of the material you need to review before the meeting (if not, call me). Please bring your lunch, I am not sure if there is a place to eat in the area at this time of year (Pirate's Cove ??) and I do not know of other places to eat in the area (any suggestions?)

The basic draft agenda for the meeting will be:
1. GIS data
2. Upland Report
3. Facilities Survey and List of Facilities
4. Fieldwork update
5. Fishing Activities

DIRECTIONS:
REGIONAL VOCATIONAL AQUACULTURE SCHOOL
60 St. Stephens Road
Bridgeport, Connecticut 06605
Phone: (203) 576-7608

DIRECTIONS FROM SOUTHBOUND I-95 (TOWARD NEW YORK)

1.Exit 25, Fairfield Avenue
2.Left at bottom of ramp onto Fairfield Avenue
3.Second street after the second traffic light turn left onto Wordin Avenue. Liberty Motors is on the corner.
4.Veer right at first street, onto Ocean Terrace.
5.Second left onto Shell Street
6.At the end of this road turn right onto St. Stephens Road
7.First left into school parking lot. Enter through front double doors and main office is on the right.

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(from website: http://www.bridgeportedu.com/personnel/directions.htm)

So, we will see you Thursday April 26th at 10am - bring yourselves, suggestions, & lunch.

Again, please feel free to contact me should you have any suggestions or questions. Thanks - Ann

Ann Rodney
US EPA New England Region
1 Congress Street
Suite 1100, CWQ
Boston, MA 02114-2023
(617) 918-1538
(617) 918- 1505 fax
rodney.ann@epa.gov

NFORMATION SENT APRIL 17, 2001

Ann Rodney

04/17/01
01:45 PM

To: awaters@savethesound.org, bay@friendsofthebay.org, bei@debiz.com, bjm@byy.com, bkelly6313@aol.com, bradk@marinenv.com, brbryan@fishersisland.net, ckral@javanet.com, cleanhbr@aol.com, cmta@snet.net, ctmaritime@msn.com, ctpilot@erols.com, dajjsj@aol.com, dwnorth@aol.com, essexisland@aol.com, george.proios@co.suffolk.ny.us, gulbran@battelle.org, hanluksam@aol.com, jack@byy.com, johnny.mac@att.net, jsjohnson20@hotmail.com, kwj@bnl.gov, kwj@bnl.gov, mcmyacht@aol.com, mpurnell@snet.net, mreiser@marinenv.com, mtristin@logistec.com, rfromer@snet.net, rmcomeau@netscape.net, RPOTTS@BYY.com, sailerct@connix.com, saybrook@snet.net, spicersmarina@aol.com, tdubno@gatewayt.com, thamesdd@99main.com, wshadel@zoo.uvm.edu
cc: brochi.jean@epamail.epa.gov, christopher.j.high@usace.army.mil, epowers@ensr.com, george.wisker@po.state.ct.us, j.evans-brumm@evdoramail.com, jatkins@savethesound.org, knchytal@gw.dec.state.ny.us, knchytal@gw.dec.state.ny.us, Pabst.Douglas@epamail.epa.gov, salata.joseph@snet.net, susan.e.holtham@usace.army.mil, Tedesco.Mark@epamail.epa.gov, Tomey.David@epamail.epa.gov
Subject: LIS EIS 4/26 WG - RSVP

Hello,

This is a reminder and a request for an RSVP. If possible could you please tell me if you will be attending the meeting on the 26th (I have heard from some of you, thank you).

As you know The Corps & EPA have scheduled a Working Group meeting for Thursday April 26, 2001, 10:00am-3:00pm at the Bridgeport Regional Vocational Aquaculture School in Bridgeport, CT. (203) 576-7608. The directions are below, and the website is:
http://www.aquaculture.bridgeport.ct.lightspan.net/servlet/UserView (?)

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The agenda is:

LIS EIS Working Group Meeting
Thursday April 26, 2001
Bridgeport Regional Vocational Aquaculture School
10:00am - 3:00pm

Introductions - Ann Rodney, EPA
Field Summary - Chris High, Corps
Fishing Activities - Drew Carey, Coastal Visions
Upland - Stan Humphries, ENSR

lunch - 45 minutes

GIS - Drew Carey, Coastal Visions & Isabelle Morin ENSR
Economics - Rich Ring, Corps & Scott Hazelton WEFE
Wrap-up - Ann

DIRECTIONS:
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60 St. Stephens Road
Bridgeport, Connecticut 06605
Phone: (203) 576-7608

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(from website: http://www.bridgeportedu.com/personnel/directions.htm)

So, we hope to see you Thursday April 26th at 10am - bring yourselves, suggestions, & lunch.

Again, please feel free to contact me should you have any suggestions or questions. Thanks - Ann

Ann Rodney
US EPA New England Region
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Suite 1100, CWQ
Boston, MA 02114-2023
(617) 918-1538
(617) 918- 1505 fax
rodney.ann@epa.gov

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APPENDIX B

AGENDA

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Working Group Meeting #2
Bridgeport, CT
April 26, 2001
10:00 AM

Field Summary – Chris High, Corps of Engineers, New England District

Fisheries Resource and Fishing Activities – Drew Carey, ENSR Team (Coastal Vision)

Potential Upland Alternative Disposal Sites – Stan Humphries, ENSR

LUNCH

Meta-Database of GIS Information – Drew Carey, ENSR Team (Coastal Vision), and Isabelle Morin, ENSR

Dredging Needs and Economic Analyses – Rich Ring, Corps of Engineers, New England District and Scott Hazelton, ENSR Team (DRI-WEFA)

Project Status Report – Mark Habel, Project Manager, Corps of Engineers, New England District

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APPENDIX C

PRESENTATION INFORMATION

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CHRISTOPHER HIGH, USACE

Long Island Sound EIS

Field Summary Report

Christopher High

USACE, New England District

Presentation Outline

- Sediment Chemistry of Existing Sites
- Benthic Community Sampling/Analysis of Existing Sites
- Tissue Chemistry (Benthic, Lobster, Finfish)
- Sediment Mapping
- Physical Oceanographic Data

Sediment Chemistry of Existing Sites

(Looking at the sediment composition)

- **Purpose**
  - To analyze sediments for the following:
    - » Sediment Texture (aka grain size)
    - » Sediment Chemistry
    - » Sediment Toxicity
- **Sampling**
  - Sampled multiple locations at all existing disposal sites in Feb 00.
- **Status**
  - Sediment Chemistry/Grain Size: data have been analyzed and are currently under review by the Corps and EPA.
  - Toxicity: Has been analyzed. Will be evaluated in context with other testing.

Benthic Community Sampling/Analysis

(Looking at community structure of bottom organisms)

- **Purpose**
  - To determine the benthic community structure and abundance at the existing sites.
- **Sampling**
  - Two surveys have been conducted (Feb 00 and July 00).
- **Status**
  - The data have been analyzed and is currently being reviewed by the Corps and EPA.

Tissue Chemistry

1. Benthic (bottom) Tissue

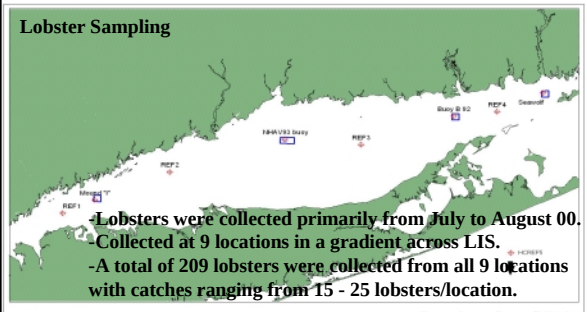
- **Purpose**
  - Evaluate tissue accumulation of contaminants in benthic organisms.
  - To determine the baseline conditions of benthic species tissue concentrations.
  - Allows assessments of other organisms (e.g. fish and lobster).
- **Sampling**
  - Completed in July/August 00 at NLDS and CLIS.
  - Completed at multiple areas at each site.
- **Status**
  - Analysis pending.

Tissue Chemistry

2. Lobster Tissue

- **Purpose**
  - Evaluate tissue accumulation of contaminants in lobster.
  - Establish a baseline condition for lobster by analyzing tissue from various locations throughout LIS.
  - Address public concerns regarding the safety of lobsters for human consumption.
  - Provide additional data for CT DEP lobster fishery database.
- **Sampling**
  - Note Lobster Sampling Figure
- **Status**
  - Analysis pending.

Lobster Sampling



Tissue Chemistry

3. Finfish

- **Purpose**
  - Evaluate tissue accumulation of contaminants in finfish.
  - Establish a baseline condition of finfish tissue concentrations from various locations throughout LIS.
  - Address public concerns regarding the safety of finfish for human consumption.
- **Sampling**
  - Two sampling events occurred during June 00 and Sept 00.
  - Sampling conducted in association with the CT DEP.
  - Sampling consisted of one replicate from each species per site. A total of 650 finfish were collected during both sampling events.
- **Status**
  - Analysis pending.

Sediment Mapping

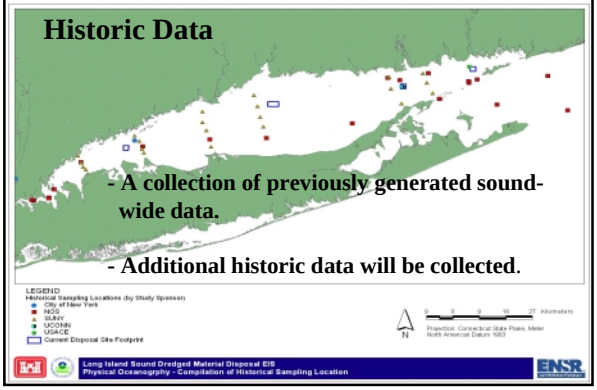
- **Purpose**
  - To establish baseline characteristics and assess geological, habitat using sidescan sonar technology.
- **Sampling**
  - Survey of existing sites and reference areas conducted in August 99.
  - Additional survey scheduled for April 01.
- **Status**
  - Data from 99 survey will be evaluated in conjunction with the additional from the April 01 survey.

Physical Oceanographic Data

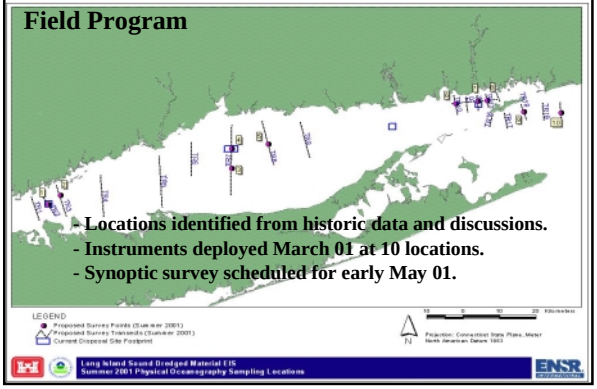
(The hydrodynamics of LIS, such as currents and depth)

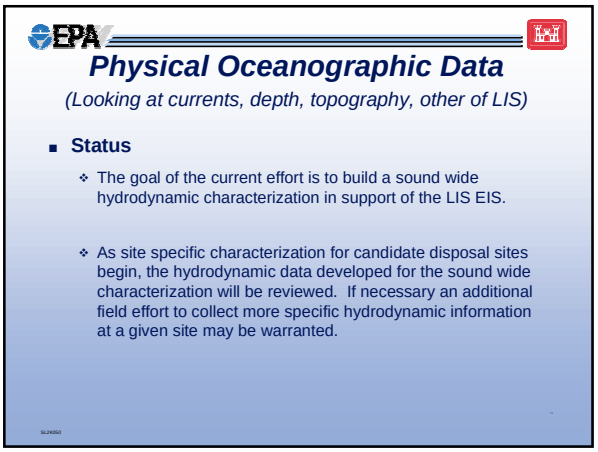
- **Purpose**
  - To generate a hydrodynamic characterization of the sound.
  - To evaluate the circulation patterns and degree of water movement in LIS.
  - Ensure designated sites afford minimal transport of dredged material away from the disposal site.
- **Sampling**
  - Developed through a synthesis of existing (historic) data and additional field data collections.
  - Goal is to build a sound wide hydrodynamic characterization in support of the LIS EIS.

Historic Data



Field Program




EPA
Physical Oceanographic Data
(Looking at currents, depth, topography, other of LIS)
Status
The goal of the current effort is to build a sound wide hydrodynamic characterization in support of the LIS EIS.
As site specific characterization for candidate disposal sites begin, the hydrodynamic data developed for the sound wide characterization will be reviewed. If necessary an additional field effort to collect more specific hydrodynamic information at a given site may be warranted.

DREW CAREY, ENSR TEAM (COASTAL VISION)

Long Island Sound EIS

Fisheries Resources and Fishing Activities

- Resource Assessment
- Fishing Activities

Drew A. Carey, Ph.D.
CoastalVision
Newport, RI

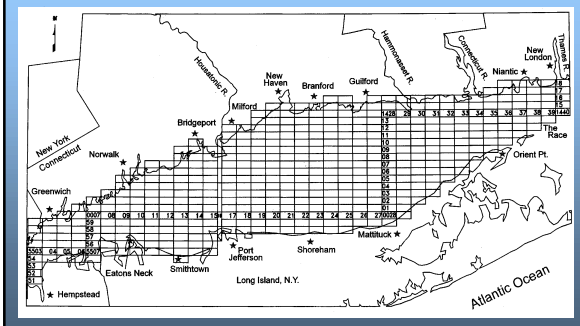
ENSR CoastalVision

Fisheries Resources

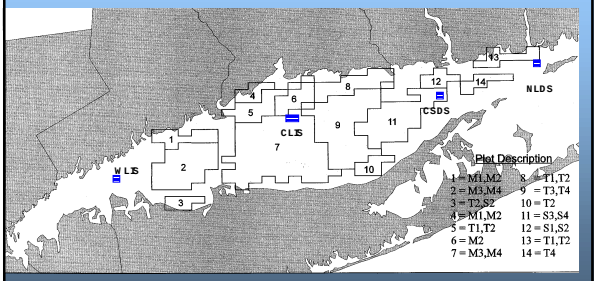
- Data from CTDEP Trawl surveys (1984-2000)
- Additional data from NMFS and RIDEM
- Investigate distinct “strata” and areas near disposal sites
  - Total CPUE (Catch Per Unit Effort)
  - Diversity/Richness (finfish, squid & lobsters)
  - CPUE of “important” species
  - Harvestable CPUE of commercial/recreational species
  - CPUE of juveniles and young of year (nursery habitat)

ENSR CoastalVision

Fisheries Resources



Fisheries Resources



ENSR CoastalVision

Fishing Activities

- Limited available data
- Volunteer Angler Survey
- Logbooks

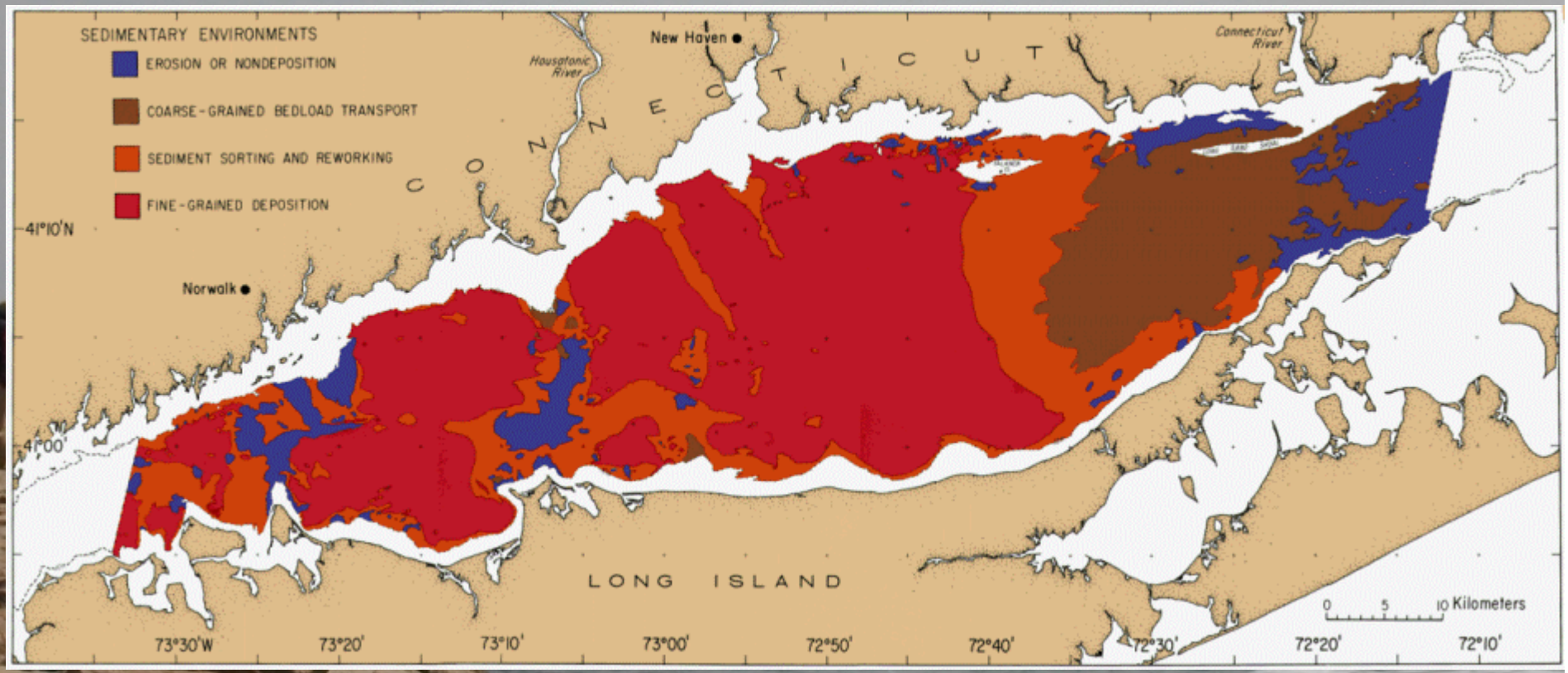
ENSR CoastalVision

Interviews

- Commercial and Recreational
- Administered through organizations
- Used contacts with representatives of Fishing Groups
- Interviewed individual fishermen

ENSR CoastalVision

Fishing activities



ENSR

CoastalVision

Figure 4a - Entire LIS with Fishing Activities Divisions

Long Island Sound Dredged Material EIS
Fisheries Activities Questionnaire

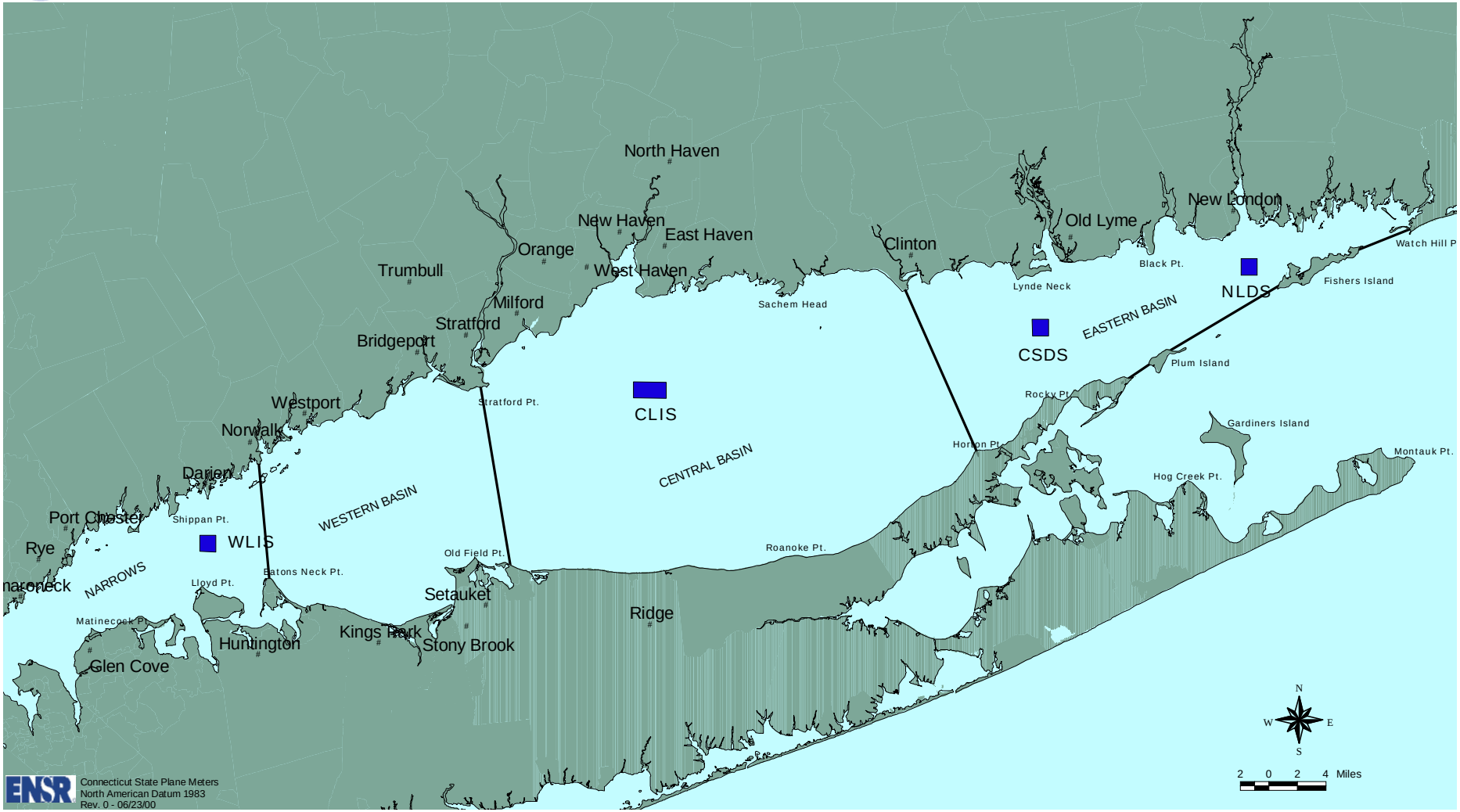
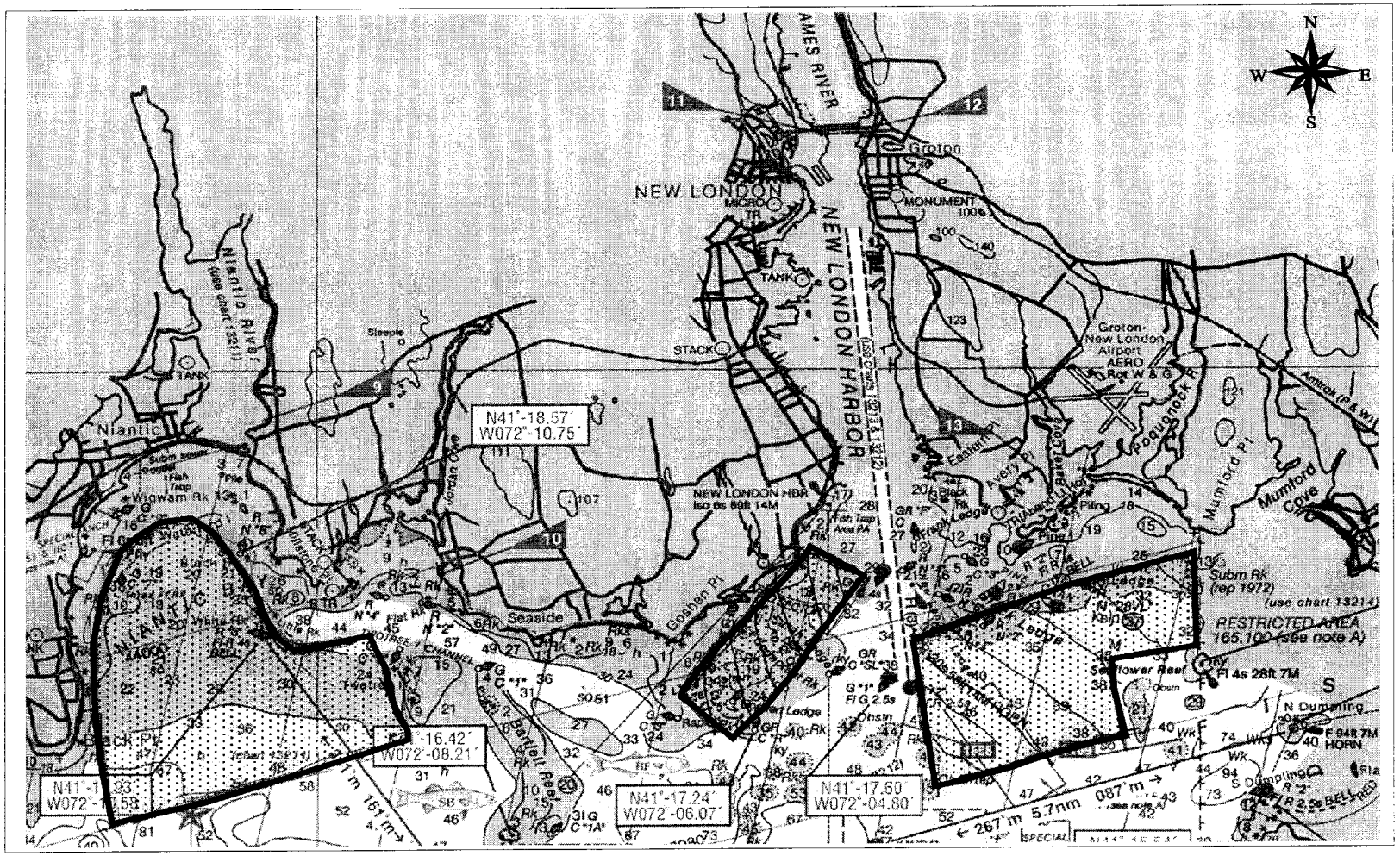


Figure 7 - Dragging Areas in Eastern LIS and Fishers Island Sound

Long Island Sound Dredged Material EIS
Fishing Activities Report

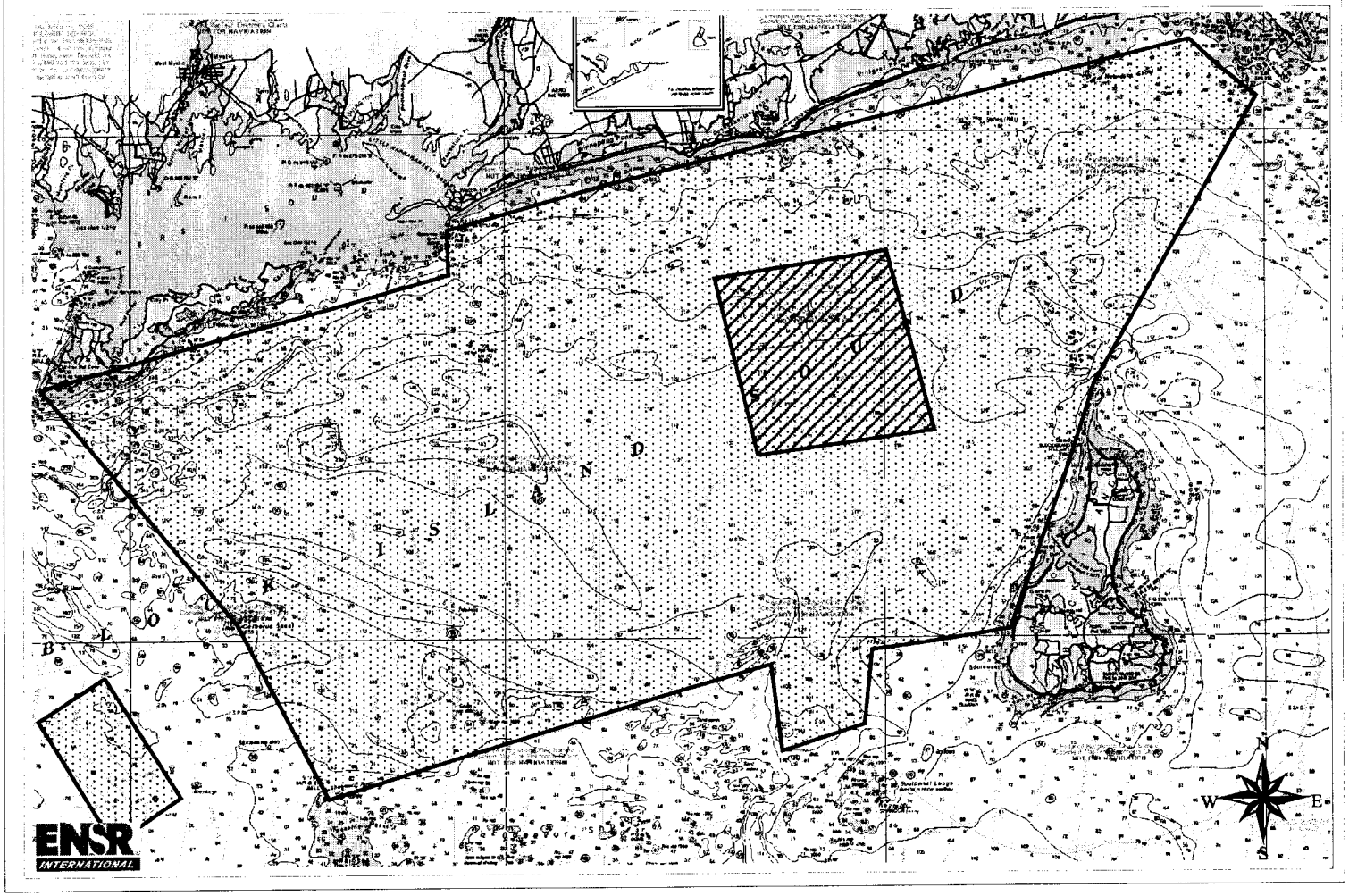


ENSR

CoastalVision

Figure 7c - Dragging Areas in Block Island Sound

Long Island Sound Dredged Material EIS
Fishing Activities Report



ENSR

CoastalVision

Interviews

- Commercial landings dominated by lobsters
- Minimal direct impacts from disposal
- Not comfortable with discharge of contaminated sediments into LIS
- Little support for relocation of disposal sites
- Limited response from recreational users

STAN HUMPHRIES, ENSR

Long Island Sound EIS

Potential

Upland Alternative

Disposal Sites

Stan Humphries
ENSR
Senior Coastal Geologist

UPLAND SITES include:

- Landfills
- Brownfield redevelopment
- Alongshore sites

- Inventory of Sites
- Summary of Use Potential

LANDFILLS -

NY - 8

CT - 52

RI - 1

PA - 1

62 total

BROWNFIELDS -

NY - 24

CT - 77

RI - 1

102 total

ALONGSHORE SITES include:

- Beaches
- Dunes
- Salt Marshes

not subtidal areas

DREDGING CENTERS -

NY - 106 (15 Federal)

CT - 76 (44 Federal)

RI - 7 (2 Federal)

189 total

Beach Nourishment & Dune Restoration

DISPOSAL AREAS

(Beaches and Dunes) -

NY - 183 (40 Public)

CT - 100 (41 Public)

RI - 22 (17 Public)

305 total

SALT MARSHES -

NY - 0

CT - 9

RI - 1

10 total

Summary of Use Potential

LANDFILLS	High	Moderate	Low
NY		√	
CT		√	
RI			√

BROWNFIELDS	High	Moderate	Low
NY			√
CT		√	
RI			√

ALONGSHORE	High	Moderate	Low
NY	√		
CT		√	
RI	√		

DREW CAREY, ENSR TEAM (COASTAL VISION)

ISABELLE MORIN, ENSR

Long Island Sound EIS

Meta-Database of GIS Information

Isabelle Morin

ENSR

Westford MA

Description of GIS Project

- **G**eographic **I**nformation **S**ystem
  - Presents data in spatial views
  - Data can be layered and used analytically
- ArcView v. 3.2 (ESRI) software
- Map Projection: CT State Plane Meters, North Atlantic Datum of 1983 (NAD 83)
- Maps generated as Adobe Acrobat PDF files to be placed on EPA website
  - Will allow all members to view and use data

Types of Information Contained

- Political
  - Boundaries of towns, counties, ZIP code areas
  - Limits of Zone of Siting Feasibility (ZSF)
  - Location of facilities identified by dredging needs survey
- Physical Oceanography
  - Bathymetry
  - Historical current measurement locations
  - Physical Oceanography field measurements (ongoing)
  - Sedimentary environments and sediment transport mechanisms

Types of Information Contained (cont'd)

- Biological Resources
  - Oyster, soft-clam, hard-clam, and wetland habitats
  - CTDEP finfish survey trawl lines
  - Finfish, lobster and benthic community surveys (ENSR)
  - Fishing activities survey areas
  - Essential fish habitats (future layer)
- Sediment Characteristics and Chemistry
  - Historical sediment samples locations
  - Sediment chemistry (future layer)
  - Sonar scan imaging of bottom

Principal Sources of Data

- Federal Programs/Government
  - U.S. Army Corps of Engineers
    - » Historical disposal database
    - » Sediment characteristics
  - USGS
    - » LIS studies on CD-ROM
    - » Bathymetry
    - » Historical sediment database
    - » Sonar scan images
  - NOAA
    - » Nautical charts

Principal Sources of Data (cont'd)

- State Governments
  - CTDEP
    - » Natural biodiversity database
    - » Ecology of LIS:
      - Wetlands
      - Oyster, hard-clam and soft-clam beds
    - » Finfish survey trawl database
  - CT, NY and RI state GIS Programs
    - » Political boundaries (towns, counties and ZIP codes)

Sources of Information (cont'd)

- ENSR International
  - LIS field survey sampling locations
    - » February and July 2000 benthic survey
    - » June and September 2000 finfish survey
    - » September 2000 lobster survey
  - Physical oceanography field program stations
    - » Spring 2001 survey
  - Location of facilities identified in dredging needs survey
  - Location of dredging centers and potential upland disposal alternatives

Example Use of GIS – Selection of Physical Oceanography Stations

- Selection criteria
- Layers of data
- Results of evaluation

Selection Criteria

- Gap in available historical data
- Water depth between 15 and 30 meters
- Not within zone of sediment reworking and erosion
- Not within area of sandy/coarse sediment
- Position relative to historical/current disposal sites

Layers of Data

- Bathymetry and nautical charts
- Sedimentary environments (erosion/deposition patterns)
- Sediment types map
- Historical current meter locations
- Outline of historical and current disposal sites

Results of Evaluation

- Will switch here to live ArcView presentation of layer development to determine Physical Oceanography Stations.

Conclusions/What's next…

- Already constitutes a useful tool to support ongoing and future tasks
- What else…
  - Additional layers will be produced/collected
  - Use of GIS to support Phase 1 Screening alternative disposal sites

RICH RING, USACE

SCOTT HAZELTON, ENSR TEAM (DRI WEFA)

Long Island Sound EIS

Dredging Needs and Economic Analyses

Rich Ring
USACE, New England District

Summary of Economic Tasks

- Identify Navigation Dependent Facilities
- Survey to Determine Dredging Needs
- Est. Economic Significance of Facilities
- Conduct Analysis of Social and Economic Impacts of Disposal Alternatives
- Conduct Analysis of Socioeconomic Impacts of Disposal Activities
- Prepare Economic Sections of EIS

Dredging Needs

- Survey 100% of navigation dependent facilities
  - » Determine dredged material volumes for next 20 yrs
  - » Evaluate econ. impacts to facilities of dredged material disposal options.
- Estimate Federal navigation dredging needs for next 20 yrs.
- Display dredging centers on GIS for matching disposal options

Identification of Navigation Dependent Facilities

- Facilities Identified
  - ❖ CT - 619 in 50 communities
  - ❖ NY - 534 in 62 communities
  - ❖ RI - 73 in 7 communities
- Contacts Identified - over 100
- Need help to reach 100% coverage
  - ❖ Check your area or organization for completeness
  - ❖ Contact us for any changes

Questionnaire

- Questions approved by OMB
- Should take about 30 minutes to complete
- Questions
  - » Identification/location information
  - » Nature of business/facilities description
  - » Impact of dredging on business
  - » Last time dredged
  - » Future dredging needs in 5-year increments to 20 yrs
  - » Affordability of dredging and impact of not dredging

Schedule

- May thru July
  - ❖ Send out questionnaire to marinas and small facilities
  - ❖ Phone interviews as needed
  - ❖ Personal on-site interviews with deep draft facilities and selected points-of-contact
- July thru October
  - ❖ Compile survey results
  - ❖ Perform model work

Support the Survey

- The response to the survey is critical to the disposal site designation process.
- The response to the survey is critical in assessing the economic impact of disposal options
- We need 100% participation

Economic Analyses Goals

- Estimate Economic Significance of Navigation Dependent Industries
- Conduct Analysis of Economic Impacts of Dredging Activities
- Conduct Analysis of Socioeconomic Impacts of Disposal

Economic Model

- WEFA will perform model analyses
  - World's largest economic modeling and forecasting firm
  - 1500 clients, 125 economists, 17 offices worldwide, including Boston and New York
  - Largest database of U.S. national, state, county and zip code economic data, continually updated.
  - Economic forecasting models for U.S., state, and major metropolitan areas.

Economic Model

- Development
  - Foundation of County Business Pattern and BLS data.
  - Augmentation of government data with survey results.
  - Integration with WEFA regional and industry forecasts.
  - Incorporation of U.S. input/output matrix.
  - Ability to estimate multiplier impacts.
  - Constrain to local area production.

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APPENDIX D

ATTENDEES

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Long Island Sound Dredged Material Disposal EIS
Working Group Meeting
Bridgeport Regional Vocational Aquaculture School
Bridgeport, CT

April 26, 2001

ATTENDEES

Last Name	First Name and MI		Address	Phone No.	EMAIL
Berrien	Allen		91 Carrington Ave., Milford, CT	203-783-1965	milfordtrees@aol.com
Bryan	Barry	Fishers Island Conservancy	Box 197 Fishers Island NY 06390	631-788-7166	brbryan@fishersisland.net
Carey	Drew	CoastalVision	215 Eustis Ave., Newport, RI 02840	401-849-9236	caostal.vision@worldnet.att.net
Chytalo	Karen	NYSDEC		631-444-0430	knchytal@gw.dec.state.ny.us
deQuillfeldt	Charles	NYSDEC		631-444-0468	cxdequil@gw.dec.state.ny.us
Dubno	Tom	Gateway Terminal	400 Waterfront St., New Haven, CT 06512	860-467-1997	tdubno@gatewayt.com
Fredette	Tom	US Army Corps of Engineers		978-3-8291	thomas.j.fredette@usace.army.mil
Fromer	Robert		PO Box 697, New London, CT 06320		RFROMER@snet.net
Gash	Bill	Connecticut Maritime Coalition, Inc.	165 State Street, Suite 402, New London CT 06330	860-433-0848	ctmaritime@msn.com
Gulbranson	Tom	Battelle	3500 Sunrise Hwy, Great River, NY 11739	631-277-6300	gulbranson@battelle.org

Long Island Sound Dredged Material Disposal EIS
Working Group Meeting
Bridgeport Regional Vocational Aquaculture School
Bridgeport, CT

April 26, 2001

ATTENDEES

Last Name	First Name and MI		Address	Phone No.	EMAIL
Habel	Mark	US Army Corps of Engineers		978-318-8871	mark.l.habel@usace.army.mil
Hazelton	Scott	WEFA	34 Crosby Drive, Bedford, MA	781-685-5448	hazelton@wefa.com
Holtham	Sue	US Army Corps of Engineers		978-318-8536	susan.e.holtham@usace.army.mil
Humphries	Stan	ENSR	95 State Rd., Sagamore Beach, MA 02066	508-888-3900	shumphries@ensr.com
Jackson	Pete	ENSR	2 Technology Park Dr., Westford, MA	978-589-3000	pjackson@ensr.com
Kargl	Brad	Marin Environmental, Inc.	7 Island Dock Rd., Haddem, CT	860-345-4578	bkargl@marinenv.com
Kral	Rick		49 River Road, Cos Cob CT 06807	203-661-4033	CKRAL@javanet.com
Lechich	Alex	NYSDEC		718-482-4608	aflechic@gw.dec.state.ny.us
McGucken	Kathryn	NYSDEC Long Island City		718-482-4078	kdmcguck@gw.dec.state.ny.us
Morin	Isabelle	ENSR	2 Technology Park Dr., Westford, MA	978-589-3000	imorin@ensr.com

Long Island Sound Dredged Material Disposal EIS
Working Group Meeting
Bridgeport Regional Vocational Aquaculture School
Bridgeport, CT

April 26, 2001

ATTENDEES

Last Name	First Name and MI		Address	Phone No.	EMAIL
Natchez	Dan		916 East Boston Post Road, Mamaronock NY 10543	914-698-5678	dsnainc@aol.com
Potts	Rives		63 Pilots Point Dr., Westbrook, CT	860-399-7906	rpotts@byy.com
Powers	Elizabeth	ENSR	2 Technology Park Dr., Westford, MA	978-589-3000	epowers@ensr.com
Purnell	Marguerite		5 Old Litchfield Road, Washington CT 06793	860-868-6624	Mpurnell@snet.net
Reiser	Matt	Marin Environmental, Inc.	7 Island Dock Road, Haddam CT 06438	860-345-4578	mreiser@marinenv.com
Rodney	Ann	USEPA		617-918-1538	Rodney,Ann@epa.gov
Sailer	Ted	Sailer Environmental Inc.	PO Box 21, Madison CT 06443	203-248-7744	esailet@sailerenv.com
Schieferdecker	Walter		Ferry Street, Essex, CT	860-767-1267	
Spicer	Bill		93 Marsh Rd., Noank, CT	860-536-4978	spicersmarina@aol.com

Long Island Sound Dredged Material Disposal EIS
Working Group Meeting
Bridgeport Regional Vocational Aquaculture School
Bridgeport, CT

April 26, 2001

ATTENDEES

Last Name	First Name and MI		Address	Phone No.	EMAIL
Tristine	Marty		100 Waterfront St., New Haven, CT	203-468-4330	mtristin@logistec.com
Walters	Fred	Town of Greenwich Parks and Rec	101 Field Point Rd., Greenwich, CT 06807		fwalters@greenwichCT.org
Waters	Amanda	Save the Sound	185 Magee Ave. Stamford, CT	203-327-9786	awaters@savethesound.org
Westerson	Grant		20 Plain Road Essex CT	860-767-2645	cmta@snet.net

APPENDIX E

COMMENT LETTERS

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COMMENT FROM GEORGE WISKER

----- Forwarded by Ann Rodney/R1/USEPA/US on 06/05/01 10:02 AM -----

George Wisker <george.wisker@po.state.ct.us> **To: Ann Rodney/R1/USEPA/US@EPA**
cc: Charlie Evans <charles.evans@po.state.ct.us>
06/04/01 03:22 PM **Subject: Re: EIS LIS - WG #2 meeting notes**

Ann:

I was quite taken aback by the response given in the meeting notes to the question on why CT had only a moderate potential for alongshore disposal; it is not because "George Wisker does not want to overemphasize this alternative", rather it is because:

1) unsuitable dredged sediment texture - generally too fine to use as beach nourishment,

2) impacts to nearshore habitats which must be evaluated on a case by case basis to determine if any particular disposal is or isn't appropriate,

3) Multitude of public/private property owners that may not want to participate in nearshore disposal, or are only interested in high grade beach sand.

As I stated in my previous comments, the high potential listed by ENSR for landfill disposal was unreasonable because almost all landfills will be closed and unavailable in the next couple of years and I did not want to create a false perception of the availablity of this option.

In sum, the upland-alongshore potential is only moderate because of the limited opportunities presented by inherent sediment, benthic, and land use issues that will need to be solved on a case by case project specific basis. The potential use for nearshore or onshore disposal must reflect the realities of the issues that may ultimately work against the use, otherwise a false sense of the true potential will be generated.

George Wisker

George E. Wisker
CT Dept. of Env. Protection
Office of Long Island Sound Programs
79 Elm Street
Hartford, CT 06106-5127

860 424-3034 Phone
860 424-4054 Fax
george.wisker@po.state.ct.us

COMMENT FROM ROBERT FROMER

----- Forwarded by Ann Rodney/R1/USEPA/US on 06/06/01 04:15 PM -----

Robert Fromer <rfromer@snet .net>	**To:**	**Ann Rodney/R1/USEPA/US@EPA**
	cc:	
	Subject:	**Re: Fw: NYTimes.com Article: The Mirage of a Growing Fuel Supply**
06/06/01 01:06 PM		

June 6th

Ann:

Energy costs and the cost of energy are two different matters. The first is
energy consumption and the latter term is the dollars associated with the
energy expended. My request has to do with energy costs.

Fromer

----- Original Message -----
From: <Rodney.Ann@epamail.epa.gov>
To: Robert Fromer <rfromer@snet.net>
Cc: <susan.e.holtham@usace.army.mil>; <Tomey.David@epamail.epa.gov>;
<Brochi.Jean@epamail.epa.gov>; <Pabst.Douglas@epamail.epa.gov>;
<Stern.Eric@epamail.epa.gov>; <EPowers@ensr.com>; <PJackson@ensr.com>;
<Mark.L.Habel@nae02.usace.army.mil>;
<Christopher.J.High@nae02.usace.army.mil>
Sent: Monday, June 04, 2001 1:00 PM
Subject: Re: Fw: NYTimes.com Article: The Mirage of a Growing Fuel Supply

>
> Dear Robert,
> I have forwarded your e-mail to the team. The selection criteria,
> there is a basis for the selection criteria - please look under the EIS
LIS
> website - MPRSA criteria, Reports & Factsheets (April 2000 & Oct),
> Evaluation of Disposal Alternatives, Evaluation Factors Scoring Example.
> Before we focus on the preferred alternative, we need to focus on what
> sites will be studied in detail in the EIS document. We have yet to go
> through the site selection process, but this project is in a holding
> pattern because of funding.
> The article is a clear explanation of the true cost of energy. I
> think it would be an interesting discussion to have with the department
of
> energy.
>
> Thanks - Ann
>

>
>
>   Robert Fromer
>   <rfromer@snet   To: Ann
Rodney/R1/USEPA/US@EPA
>   .net>   cc:
>   Subject: Fw: NYTimes.com
Article: The Mirage
>   06/04/01   of a Growing Fuel Supply
>   10:08 AM
>
>
>
>
>
>
> June 4th
>
> Ann:
>
> The NY Times article below is the reason that energy costs (consumption)
> must be considered in rational decisionmaking for the EIS.
>
> Also, I have yet to see anyone crafting selection criteria for selection
of
> the preferred alternative; however, the least energy waste should be one
> major factor for such selection.
>
> Fromer
>
> ----- Original Message -----
> From: <mberger@99main.com>
> To: <rfromer@snet.net>
> Sent: Monday, June 04, 2001 7:42 AM
> Subject: NYTimes.com Article: The Mirage of a Growing Fuel Supply
>
>
> > This article from NYTimes.com
> > has been sent to you by mberger@99main.com.
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> > http://email.nytimes.com/email/email.jsp?eta5

> > The Mirage of a Growing Fuel Supply
> >
> > By EVAR D. NERING
> >
> > COTTSDALE, Ariz. — When I discussed the exponential function
> > in the first-semester calculus classes that I taught, I invariably
> > used consumption of a nonrenewable natural resource as an example.
> > Since we are now engaged in a national debate about energy policy,
> > it may be useful to talk about the mathematics involved in making a
> > rational decision about resource use.
> >
> > In my classes, I described the following hypothetical situation.
> > We have a 100-year supply of a resource, say oil - that is, the oil
> > would last 100 years if it were consumed at its current rate. But
> > the oil is consumed at a rate that grows by 5 percent each year.
> > How long would it last under these circumstances? This is an easy
> > calculation; the answer is about 36 years.
> >
> > Oh, but let's say we underestimated the supply, and we actually
> > have a 1,000-year supply. At the same annual 5 percent growth rate
> > in use, how long will this last? The answer is about 79 years.
> >
> > Then let us say we make a striking discovery of more oil yet - a
> > bonanza - and we now have a 10,000-year supply. At our same rate of
> > growing use, how long would it last? Answer: 125 years.
> >
> > Estimates vary for how long currently known oil reserves will
> > last, though they are usually considerably less than 100 years. But
> > the point of this analysis is that it really doesn't matter what
> > the estimates are. There is no way that a supply-side attack on
> > America's energy problem can work.
> >
> > The exponential function describes the behavior of any quantity
> > whose rate of change is proportional to its size. Compound interest
> > is the most commonly encountered example - it would produce
> > exponential growth if the interest were calculated at a continuing
> > rate. I have heard public statements that use "exponential" as
> > though it describes a large or sudden increase. But exponential
> > growth does not have to be large, and it is never sudden. Rather,
> > it is inexorable.
> >
> > Calculations also show that if consumption of an energy resource
> > is allowed to grow at a steady 5 percent annual rate, a full
> > doubling of the available supply will not be as effective as
> > reducing that growth rate by half - to 2.5 percent. Doubling the
> > size of the oil reserve will add at most 14 years to the life
> > expectancy of the resource if we continue to use it at the
> > currently increasing rate, no matter how large it is currently. On
> > the other hand, halving the growth of consumption will almost
> > double the life expectancy of the supply, no matter what it is.
> >
> > This mathematical reality seems to have escaped the politicians
> > pushing to solve our energy problem by simply increasing supply.
> > Building more power plants and drilling for more oil is exactly the
> > wrong thing to do, because it will encourage more use. If we want
> > to avoid dire consequences, we need to find the political will to

> > reduce the growth in energy consumption to zero - or even begin to
> > consume less.
> >
> > I must emphasize that reducing the growth rate is not what most
> > people are talking about now when they advocate conservation; the
> > steps they recommend are just Band-Aids. If we increase the gas
> > mileage of our automobiles and then drive more miles, for example,
> > that will not reduce the growth rate.
> >
> > Reducing the growth of consumption means living closer to where we
> > work or play. It means telecommuting. It means controlling
> > population growth. It means shifting to renewable energy sources.
> >
> > It is not, perhaps, necessary to cut our use of oil, but it is
> > essential that we cut the rate of increase at which we consume it.
> > To do otherwise is to leave our descendants in an impoverished
> > world.
> >
> > Evar D. Nering is professor emeritus of mathematics at Arizona
> > State University.
> >
> >
> >
>
http://www.nytimes.com/2001/06/04/opinion/04NERI.html?ex=992654943&ei=1&en=6

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COMMENT FROM BARRY BRYAN

From: Barry R. Bryan [brbryan@fishersisland.net]
Sent: Monday, June 18, 2001 12:36 PM
To: Rodney.Ann@epamail.epa.gov
Cc: awaters@savethesound.org; bay@friendsofthebay.org; bei@debiz.com; bjm@byy.com; bkelly6313@aol.com; bradk@marinenv.com; ckral@javanet.com; cleanhbr@aol.com; cmta@snet.net; ctmaritime@msn.com; ctpilot@erols.com; CSqueri@aol.com; dajjsj@aol.com; dwnorth@aol.com; essexisland@aol.com; george.proios@co.suffolk.ny.us; gulbran@battelle.org; hanluksam@aol.com; jack@byy.com; johnny.mac@att.net; jsjohnson20@hotmail.com; kwj@bnl.gov; mcmyacht@aol.com; mpurnell@snet.net; mreiser@marinenv.com; mtristin@logistec.com; Milfordtrees@aol.com; rfromer@snet.net; rmcomeau@netscape.net; RPOTTS@byy.com; sailerct@connix.com; saybrook@snet.net; spicersmarina@aol.com; tdubno@gatewayt.com; thamesdd@99main.com; wshadel@zoo.uvm.edu; brochi.jean@epamail.epa.gov; christopher.j.high@usace.army.mil; Powers, Elizabeth; george.wisker@po.state.ct.us; j.evans-brumm@eudoramail.com; jatkins@savethesound.org; knchytal@gw.dec.state.ny.us; Pabst.Douglas@epamail.epa.gov; salata.joseph@snet.net; susan.e.holtham@usace.army.mil; Tedesco.Mark@epamail.epa.gov; Tomey.David@epamail.epa.gov; Jackson, Peter

Subject: Re: EIS LIS - WG #2 meeting notes (file attached, 7pgs text)

The 4/26/01 Working Group Meeting was an interesting update on the preliminary work that has been done in some of the areas to be covered by the EIS. Unfortunately, there was almost nothing of substance to be considered or decided by the Group. Hence I find that I have no comments on the meeting notes.

This is very disappointing to those of us who looked forward to playing a substantive role in the preparation of the EIS and the site screening process -- for example, reviewing the GIS and determining the weight to be given to each of the Ocean Dumping Act (MPRSA) criteria. The site designation process began with a flurry of scoping meetings, "fact" sheets, questionnaires and the creation of four working groups (later consolidated into one), who would "roll up their sleeves" and go to work at monthly meetings. Two years after the initial scoping meetings, we have seen some interesting draft reports, but very little hard data.

What was even more disturbing was to hear at the end of the 4/26/01 meeting that the Army Corps has no FY2001 funds for testing tissue; that FY2002 funds will not even cover tissue testing, let alone alternative site analysis or any other site screening tasks; and that completion of the EIS has been pushed back to early 2005 "if fully funded". It is hard to understand, in an era of huge budget surpluses, a $1.3 trillion tax cut, an administration determined to expand the military budget and millions being spent to clean up the Long Island Sound, why a few Million were not allocated for this project. Did the Army Corps or the EPA in fact ask for funds? Are there not funds elsewhere in the Corps' or EPA's budget that could be used for this important purpose?

In the much celebrated April 16, 1998 Letter of Agreement between EPA Region I and Army Corps of Engineers New England District, the two agencies agreed to complete the Draft EIS by March 31, 2001, the Final EIS by December 31,

2001, and the entire site designation process and development of site management plans by October 1, 2003, with best efforts to do so by March 24, 2002. In the Letter of Agreement the Army Corps committed to provide the "fiscal resources" to meet this schedule.

We are now told that the EIS (Draft? Final?) will not be completed, even "if fully funded", until early 2005. What does this 3 1/2-year delay in completing the EIS mean for the completion of the site designation and site management plans? 2006? 2007?

And the most important question to all stakeholders in the site designation process: What do the EPA and Army Corps intend to do about any federal dredging projects or private dredging projects of more than 25,000 cu. yds in Long Island Sound until they are completed?

Barry R. Bryan

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